Amount Rec'd .: Check No.: PERMIT NO.: Rec'd By: MTGOlDAIL Montana Department of WATER PROTECTION BUREAU Notice of Intent (NOI) for Montana Pollution Discharge Elimination FORM System Application for New and Existing Concentrated Animal NOI **Feeding Operations** The Application form is to be completed by the owner or operator of a Concentrated Animal Feeding Operation (CAFO) or Aquatic Animal Production Facility. Please read the attached instructions before completing this form. You must print or type legibly; forms that are not legible or are not complete will be returned. You must maintain a copy of the completed application form for your records. Section A - Application Status (Check one): No prior application submitted for this site. New Permit Number: MTG ______ Resubmitted Permit Number: MTG <u>6 1 0 21 6</u> Renewal Permit Number: MTG X Modification Section B - Facility or Site Information (See instruction sheet.): Site Name Two Hills COlo NY Site Location SEL SF4 S16 26 N S F Nearest City or Town CAPTER MT 59420 County ChayTery Latitude _____ Longitude Date Facility began operation? _____ Is this facility or site located on Indian Lands? Yes No Section C - Applicant (Owner/Operator) Information: Owner or Operator Name David D. Hofer - Sect-Treas Mailing Address 4177 Beaver Slide Rd City, State, and Zip Code Caster, Mont 59420 Phone Number 406-734-5216 Is the person listed above the owner? Yes Status of Applicant (Check one) Federal State Private Public Other (specify)

Section	D - Existing or Pend	ling Permits, (Certifications, o	r Approvals:	None	
] RCRA		
☐ PSD	(Air Emissions)	TOTAL DO TO BE AN INCIDENCE AND A STATE OF THE STATE OF T] Other		
404]	Permit (dredge & fill)	national information that are also also reconstructions of the second contract of the secon		Other		,
Section	ı E – Standard İndu	strial Classific	ation (SIC) Co			
Provid	le at least one SIC code	which best refle	ects the activity o	f project described	in Section H	7
Code		rimary	Code		. Second	-
1	213		2	252		
Code		Third	Code		. Fourth	
3	251		3	en e		
Section	F - Facility or Site C	Contact Person	/Position:	213	252	
Name ar	nd Title, or Position T	itle Jake	wiPF.	Hoas F		hichen
Mailing	Address			<i>V</i>	Peter HoFer C Tohin HoFer	S
					Broliev Fryer	
Phone N					Roster Chicke	
Section	G – Receiving Surfa	ce Waters(s):				
	Outfall/Discharge Lo		h outfall, List latit name of the rece		o the nearest second and	
	Outfall Number	Latitude	Longitude	Receivin	g Surface Waters	
	001	48,00	11164'	NADW	ort	
	002	57.26'M	16,69 W			
	003	***				
	004 005	ELEU	3297 FT			
	003					
						_
Section B above. Al	ach a topographic map depicting the facility of lso identify the specific eiving water on the 303	or activity bound location of the p	laries, major drair production area, a	nage patterns, and the and land application		l in , stated
15 ine reco	erving water on the 303	(a) list for fluir	ents (mtrogen and	vor phosphorus)	Yes No	
				REC	EIVED	
				MAR	0 4 2015	
				PERMITTING	EOMPB & COMPLIANCE DIV.	
						1

Section H – Concentration Animal Feeding Operation Characteristics
Waste Production, Storage and Disposal

- Adams and a second	Animal type	Number in Open Confinement	Number Housed Under
	Mature Dairy Cows		Roof
	Dairy Heifers		
	Veal Calves		
	Cattle (not dairy or veal)		
	Swine (55 lbs or over)		
	Swine (55 lbs or under)		1000
	Horses		4530
	Sheep or Lambs		
D	Turkeys		
	Chickens (broilers)		
]	Chickens (layers)		2500
]	Ducks		9630
]	Other (Specify:)		
]	Other (Specify:	Promiss transported by the State of the Stat	
J	Other (Specify:		

Other (Specify:	
Manure, Litter and/or Wastewater Production and Use. How much manure, litter, and process wastewater is generated annually by the facility? Solid (tons): 475 Tow HOGSOTOW Liquid/Slurry (gallons): 4,300,000	
If land applied, how many acres of land under control of the permit applicant are available to apply the manure, litter process wastewater generated from the facility? (Note: Do not include setback distances in available acreage Acres	r, or
How much manure, litter, and process wastewater is transferred to other persons per year? (estimated) Solid (tons): Liquid/Slurry (gallons): A	
Were the containment structures built after February 2006?	
formations?	C
☐ Do the waste containment structures have 4 feet of separation from the pond bottom and any ground water ☐ Were any of the waste containment structures built within 500 feet of any existing well? NO	er?

1	Type or containment/Storage	Total Capacity	Units (gallon.	i tons)	Days of Storage	
, ,	☐ Anaerobic Lagoon			delectristicales delectricales de la constante	The second control of	
1	☐ Storage Pond #1			20004-0000-0000-0000-0000-000-000-000-00	WANTED THE REAL PROPERTY OF THE PROPERTY OF TH	1
	☐ Storage Pond #2			застичностичности доменти и подгодорого образо		
	☐ Storage Pond #3					1
	☐ Storage Pond #4	Septiments (Title Austria engines of Autoritis) (All All State Links and Autoritis) (All All State Autoritis)	paleo bilah diretimiya cidir kili bilah bilah enkih qilonan bil zarazildan bersion cikilik bilah di			1
	Storage Pond #5	ференция в почения при				-
	Above Ground Storage Tank	2:900,000	14 240 01	nn Di	180 + Was	1.
	☐ Below Ground Storage Tank #1	10170000	1300	or Company	180 + 1401	16
	☐ Below Ground Storage Tank #2		-	PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF		1
	Underfloor Pits	eminimatics control and interesting and control and white determination of the control and an extension of the control and an	emperonous distribution of the control of the contr	electric de la companya de la compa		1
	□ Roofed Storage Shed	Annual transfer of the state of	maken teknik mila tapa ammagikila pirik pirik balak kelak palah kappungki kelak bir Sili - e k kil	styramininininininininininininininininininin		-
	☐ Concrete Pad					1
	☐ Impervious Soil Pad					1
	Other (Specify:)					
	Other (Specify:)			evento-terrorio con contrata de la contrata del contrata del contrata de la contrata del contrata de la contrata del contrata de la contrata del contrata de la contrata del contrata del contrata del contrata de la contrata del con		
mtain	al Data for CAFO					J
Physic	II Data for Caro					
antrici	nt Management Plan					
All Con	ncentrated Animal Feeding Operations seeking	ng permit coverage	after July 31, 20	007 are re	auired to complete	e and
implem	ent a Nutrient Management (NMP). The NM	AP must be submitte	ed to the Departi	ment using	g the form provide	ed by
the Dep	partment (Form NMP). Check the box below	that applies and pro	ovide the require	ed informa	ation. The NMP r	must be
develop	ed in accordance with ARM 17.30.1334 and	I implemented upor	the effective da	ate of perr	mit coverage. (Cho	eck
One)	and a spanner					
	es the facility have an NMP?	-on a south				
	te NMP was developed: 8-24-3:					
Dat	te NMP was last modified: 10 - 23	, - 14	-			
	P has not been prepared; provide detailed ex	colanation below				
- Coons		P				
Section	n I – Supplemental Information					Control of the Contro

cion J - CERTIFICATION

rmittee Information:

This Form NMP must be completed, signed, and certified as follows:

- For a corporation, by a principal officer of at least the level of vice president;
- For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
- For a municipality, state, federal, or other public facility, by either a principal executive officer or ranking elected official.

All Permittees Must Complete the Following Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information; including the possibility of fine and imprisonment for knowing violations. [75-5-633, MCA]

A. Name (Type or Print)	
DAVID HOFEY	
B. Title (Type or Print)	C. Phone No.
SecreTary	C. Phone No. 734-5216
D. Signature	E. Date Signed
David D'Wohen	1-28-15

The Department will not process this form until all of the requested information is supplied, and the appropriate fees are paid. Return this form (NOI) and the applicable fee to:

Department of Environmental Quality
Water Protection Bureau
PO Box 200901
Helena, MT 59620-0901
(406) 444-3080

PERMITTING & COMPLIANCE DIV.

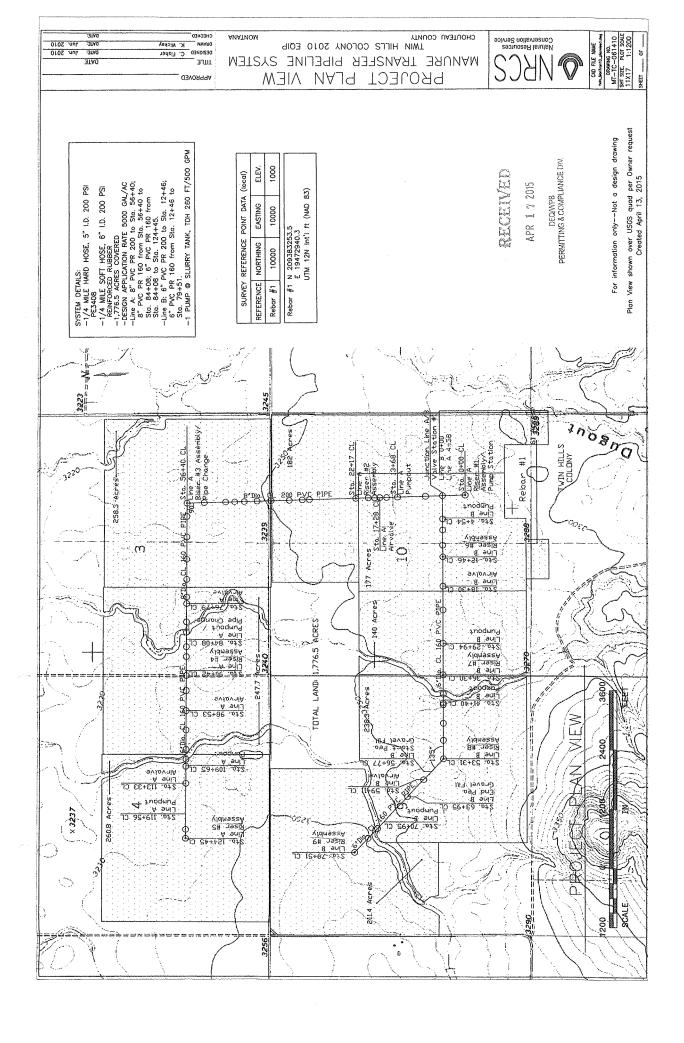
Common Standard Industrial Classification (SIC) Codes

Division	SIC	Industrial Activity Represented					
	211	Beef Cattle Feedlots					
	212	Beef Cattle, Except Feedlots					
	(213)	Hogs					
	214	Sheep and Goats					
	241	Dairy Farms					
Agriculture, Forestry and	(251)	Broiler, Fryer and Roaster Chickens					
Fishing	(252)	Chicken Eggs					
-	253	Turkeys and Turkey Eggs					
	254	Poultry hatcheries					
	259	Poultry and Eggs, not elsewhere classified (Ducks)					
	272	orses and other Equines					
	921	ish Hatcheries and Preserves					
	1021	Copper Ores					
	1031	Lead and Zinc					
	1044	Silver Ores					
Mining	1041	Gold Ores					
	1221	Bituminous Coal and Lignite Surface Mining					
	1311	Crud Petroleum and Natural Gas					
	1442	Construction Sand and Gravel					
	1521	General Contractor - Single Family Houses					
	1522	General Contractor - Residential Bldgs. Other Than Single Family					
	1542	General Contractor - Nonresidential Buildings, Other than Industrial Buildings and					
		Warehouses					
Constant Page	1611	Highway and Street Construction, Except Elevated Highways					
Construction	1622	Bridge, Tunnel, and Elevated Highway construction					
	1623	Water, Sewer, Pipeline, communications & Power Line Construction					
	1629	Heavy construction, Not Elsewhere Classified					
	1794	Excavation Work					
	7349	Building Cleaning and Maintenance Services, Not Elsewhere					
Desired State	2011	Meat Packing Plants					
	2063	Beet Sugar					
Manufacturing	2421	Sawmills and Planning Mills, General					
ivianulacturing	2611	Pulp Mills					
	2911	Petroleum Refining					
	3241	Cement, Hydraulic					
Transportation	4911	Electric Services					
Transportation, Communications, Electric,	4941	Water Supply					
Gas and Sanitary Services	4952	Sewerage Systems					
Cas and Sames y Sci vices	4953	Refuse Systems					
	5093	Scrap and Waste Materials					
Wholesale Trade	5154	Livestock					
	5171	Petroleum Bulk Stations and Terminals					
Retail Trade	5541	Gasoline Service Station					
Commence	5984	Liquefied Petroleum Gas (Bottled Gas) Dealers					
	7011	Hotels and Motels					
Services	7033	Recreational Vehicle Parks and Campsites					
	7542	Carwashes					
Public Administration	9224	Fire Protection					

TRANS Far Pipadine 6" PUC

500 FRON PUNP STATION

2,800,000 Bals, DIA 25 High 8" Transfet Puc 200 PSI To Field.



	AGENCY US	E ONLY				
PERMIT NO.:	Date Rec'd.:	Amount Rec'd.:	Check No.:	Rec'd By:		
Montana Department of FINIE ONTENTAL QUALITY WATER PROTECTION BUREAU						
NMP Nutrient Management Plan						
READ THIS BEFORE COMPLET Feeding Operation (CAFO) operators to read the "Instructions For filling ou operators develop a site-specific Nutr applicable State rules and statutes. Yo of the General Permit, Sections B and	need to read the General lat Form NMP," found at the ient Management Plan, in our Nutrient Management I	Permit, particularly le back of this form. compliance with Par Plan must be mainta	Part IV.A. CAFO opera Form NMP is intended rt IV.A of the General I ined at the site as requi	ators also need I to help CAFO Permit and all red in Part III		

of the General Permit. Sections B and C on your Form NMP must state the information exactly the same way as it was stated on the most recently submitted version of your NOI-CAFO. Attach additional pages as necessary, indicating the corresponding section number on this NMP form. The 2013 General Permit, current fee schedule, and related forms are available from the Water Protection Bureau at (406) 444-3080 or http://www.deq.mt.gov/wqinfo/MPDES/CAFO.asp

		20,110,039		
Section A - NMP				
New	No prior NMP submitted for this site.			
Resubmitted	Previous NMP found incomplete.			
Modification	Change or update to existing NMP.			
UNew 2013	New 2013 version of NMP.			
Section B - Facility	y Information:			
Facility Name	WIN HISIS COLONY			
	SE4 SE4 S10-26/VSE			
Nearest City of Tov	vn <u>CArTer MT.</u> County <u>C.</u>	SOUTER U		
Section C – Applic	ant (Owner/Operator Information):	The same of the sa		
Owner or Operator	Name DAVIS HOFEY	RECEIVED		
Mailing Address 4177 BRAVERSI, de Rd MAR 0 4 2015				
City, State, and Zip code <u>CArTer 147</u> , <u>59420</u> DECEMPB				
Facility Phone Number (406) 734-5316 PERMITTING & COMPULANCE				
Email				
A 2012	CASONILLAND			

Section D - NMP Minimum Elements:

Animal Type and number of animals	# of Days on S	12	Annual Manure Production (tons, cu. yds. or gal	
1 0	Weight		DAYS	And the second s
1. GESTATING SOW 40	0 385	2,8	<u> 365 </u>	468,860
L. Boars 30	400	2.39	365	26,171
3. Sows +Litter 100	400	4.1	365	149,650
4. Norsery Pigs 1000	25	1,13	365	412,450
5. Grower ToFinish 4	000 150	, 289	365	4,219,400
6.			Qualitation Compagnion established in characteristics	5,216,47/TOTAL
7. Poul Try Layer 96	00 311	15 lbs	365	263TONS
8. PULLETS LAYERS 25	00 2 es	11366	3 267	43TONS

Method used for estimating annual manure production:

CIPCULAR DEQ9

2. Manure Handling

a. Describe Manure handling at the facility:

MANURE IS COLLECTED IN UNDERSLAT CONTAINMENT

POULTry MANURE IS COLLECTED ON A UNDER CASE BELT

WHICH TAKES THE MANURE OUT OF LAYER FACILITY

b. Frequency of Manure Removal from confinement areas:

Hogs Every 14 DAYS POULTRY Every 3 nd DAY

c. Is this manure temporarily stored in any location other than the confinement area? Tes No
If so then how and where? MANURE GRAVITY Flows OUT to a
Holding Pit Then it is Put through A SEPARATER
Solids go To Stacking Pad. Liquids is Pumper
SLURRY STORE TANK

d. Is manure stored on impervious surface? Yes No If yes, describe type and characteristics of this surface:

CONCRETE FLOORS & WALLS

Waste Control	Length	Width	Depth	Volume	Number of
Structures	(ft.)	(ft.)	(ft.)	(cubic ft.	days of
(mame/type)				or gallons)	storage
1. HATVEST	store	145 PT	Dia '	2,654	2748
2. VERTIE	NL TANK		23FT	TOTAL	VOLUME
3.				2839	1
4.		THE RESERVE OF THE PARTY OF THE			Ø
5.					
6. Dry 57	ack cone	spate	70' X	70' X	& '
7.					484TON
8.	ar 12 mag de maior nicipe <mark>a</mark> mós de la Carlo consensa a Carlo Carlo de Carlo				
9.					
10.					
11.			and the second s		
12.	ego en mantante de como en esta en esperante en entre en esta en entre en entre en entre en entre en entre en e			·	
the 24 hr. 25 yr. stol	acres.	Type of lot (dirt or pave	d): <u>Dir</u>	
ntributing drainage nce, or treatment st	form outside C ructures:	AFO that of	enters confin acres.	ement areas a	and waste storag

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EVERY DAY

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5. Clean Water Diversion Practices

Describe how clean water is diverted from production area:

BERM + DITCH Around CONFINEMENT BATN + HARUESTONE

6. Prohibiting Animals and Wastes from Contact with State Waters Describe how animals and wastes are prohibited from direct contact with state waters:

ANIMAIS ARE COFINED.
WASTE INJECTED IN The Sail

Describe how Chemicals and other contaminants are handled on-site: NO CHEMECAIS USED, EXCEPT DISIN FRCTANGS Which Are Flushed DOWN with Waste WATER

7. Best Management Practice (BMPS)

Describe in detail all temporary, permanent and structural BMPS which will be used to control runoff of pollutants from facility's production area. Indicate the location of these measures. If BMPS are not installed include a schedule for implementation of each of these measures. Examples of BMP measures could include but are not limited to: constructing ditches, terraces,, and waterways above and open lot to divert clean water run on; installing gutters, downspouts and buried conduits to divert roof drainage: providing more roofed area: decreasing open lot surface area; repairing of adjusting water systems to minimize water wastage; using practical amounts of water for cooling purposes; recycling water if practical and applicable. KEEP AREA AROUND COFINED Building

Production Area BMP's CLEAN AROUND LOADING CHUTES, CIEARS UP DEAD ANIMALS, DIVERT STORM WATER AWAY
FROM Building, CLEAN, WASTE FEED FROM FEED MIXING BERMOFF DAY STCK FACILATY

Describe in detail all temporary, permanent and structural Best Management Practices (BMPs) which will be used to control runoff of pollutants from facility's land production area. Indicate the location of these practices. If not already in use, include a schedule for implementation of each of these measures. Attached details and specifications may be used to supplement this description. Examples of BMP measures could include but are not limited to: maintaining setbacks from surface waters for manure applications; managing irrigation practices to prevent ponding of wastewater on land application sites;

liquid waste to frozen or Land Application BMP'	9. Out	nd; applying wastes at agron	partment prior to applying any omic rates.
Buffers Constructed Wetlands Infiltration Field Set backs Other examples	Yes No Yes No Yes No Yes No	Conservation Tillage Grass Filter Residue Management Terrace	Yes No Yes No Yes No Yes No
The permittee is required	to develop guidance y, and record keepin	g as described in Part 2 of th	of NMP, proper operation and ne permit.
	P:	es No es No es No es No es No es No	
If your answer to any of the	ie above question is と みレレ MAハ	no, provide explanation:	own ground

<u></u>
Section E – Land Application
Will manure be land applied to land either owned, rented, or leased by the owner or operator of the facility? Yes If yes, then the information requested in Section E must be provided.
No If no, then provide an explanation of how animal waste at this facility are managed.
Photos and/or Maps

Attach an aerial photograph or map of the site where manure is to be applied. (Use multiple photos/maps if necessary to show required details.) The photo(s)/map(s) must be printed on no larger than an 11"X 17" piece of paper, and must clearly identify the following items:

- Individual field boundaries for all planned land application areas
- A name, number, letter or other means of identifying each individual land application field
- The location of any downgradient surface waters.
- The location of any downgradient open tile line intake structures NON &
- The location of any downgradient sinkholes NON Q
- The location of any downgradient agricultural well heads NONC
- The location of all conduits to surface waters NONE
- The specific manure/waste handling or nutrient management restrictions associated with each land application field NO
- The soil type(s) present and their locations within the individual land application field(s)
- The location of buffers and setbacks around state surface waters, well heads, etc.

Land Application Equipment Calibration

Describe the type of equipment used to land apply wastes and the calibration procedures:

30 FT MANURE PLAW WITH A METER, Drag HOSE

USED TO APPLY MANURE FROM TRANSFERLINE

Manure Sampling and Analysis Procedures

A representative manure sample will be analyzed a minimum of once annually for Total Nitrogen, and Total Phosphorus. Analysis results will be reported in lbs/ton or lbs/1,000 gal. Results of these analyses will be used in determining rates for manure, litter, and process wastewater.

Manure Sample collection will occur according to ARM 17.30.1334

Other (describe) SECTION 50F DEPARTMENT CICALANDERS

Soil Sampling and Analysis Procedures

Representative soil (composite) samples from the top 6 inches layer of soil for each field where manure will be applied must be analyzed for phosphorus content at least once every three years. Analyses will be conducted by a qualified laboratory, using the Olsen P test. Results will be reported in parts per million (ppm) and will be used in determining application rates for manure, litter, and process wastewater

Section 50 F Soil samples collection will occur according the methods in ARM 17.30.1334

Other (describe) Soil SAMPLES TAKING YEARLY

DEPARTMENT

CICHIAN DEG 9

Phosphorus Risk Assessment

The permittee shall access the risk of phosphorus contamination of state waters. An assessment shall be conducted for each field, under the control of the operator, to which manure, litter or process wastewater will or may be applied. If a new field is at a lin the future, then the permittee must so it a revised (modified) NMP. The permittee has the option of using Method A or Method B (below) to complete the assessment. Copies of all tables and calculations used to complete the assessments, as well as the results of the assessments, shall be submitted to the Department and copies shall be maintained on-site at the facility and available for Departmental review. The results of the assessments shall be used to determine the appropriate basis for land application of wastes from the facility.

Method Used

Indicate which method will be used to determine phosphorus application:

★ Method A — Representative Soil Sample

Method B — Phosphorus Index

Method A - Representative Soil Sample

- a. Obtain one or more representative soil sample(s) from the field per 17.30.1334
- b. Have the sample analyzed for Phosphorus by a qualified lab. The "Olsen P test" must be used for the analysis, and the result must be reported in parts per million (ppm)
- c. Using the results of the Olsen P test, determine application basis according to the Table below.

Soil Test

Olsen P Soil Test Results (ppm)	Application Basis
<25.0	Nitrogen Needs of Crop
25.1 - 100.0	Phosphorus Needs of Crop
100.0 - 150.0	Phosphorus Needs up to Crop Removal Rate
>150.0	No Application allowed

Method B - Phosphorus Index

- a. Complete a phosphorus Index according to the crop grown on each field. Complete table in Appendix A to calculate phosphorus index. For information on filling out specific sections in Appendix A, please refer to the method as described in Natural Resource Conservation Service (NRCS), Agronomy Technical Note MT-77 (rev3), January 2006.
- b. Using the calculated Total Phosphorus Index Value, assign the overall site/field vulnerability to phosphorus loss according to the table below.

Total Phosphorus

Total Phosphorus Index Value	Site Vulnerability to Phosphorus Loss
<11	Low
11-21	Medium
22-43	High
>43	Very High

c. Using the calculated Site Vulnerability to Phosphorus Loss, determine the appropriate application basis according to the table below.

Site Vulnerability to Phosphorus Loss	Application Basis
Low	Nitrogen Needs
Medium	Nitrogen Needs
High	Phosphorus Need Up to Crop Removal
Very High	Phosphorus Crop Removal or No Application

The applicant has 2 ways in which to report how manure or process wastewater application rates can be reported to DEQ.

- 1. Linear Approach. Expresses rates of application as pounds of nitrogen and phosphorus. CAFOs selecting the linear approach to address rates of application must include in the NMP submitted to the permitting authority the following information for each crop, field, and year covered by the NMP, which will be used by the permitting authority to establish site-specific permit terms:
- The maximum application rate (pounds/acre/year of nitrogen and phosphorus) from manure, litter, and process wastewater.
- The outcome of the field-specific assessment of the potential for nitrogen and phosphorus transport from each field. [If a state does not have an N transport risk assessment, the NMP must document any basis for assuming that nitrogen will be fully used by crops.] The CAFO must specify any conservation practices used in calculating the risk rating.
- The crops to be planted or any other uses of a field such as pasture or fallow fields.
- The realistic annual yield goal for each crop or use identified for each field.
- The nitrogen and phosphorus recommendations from in ARM 17.30.1334 (technical standard) for each crop or use identified for each field.
- Credits for all residual nitrogen in each field that will be plant-available.
- Consideration of multi-year phosphorus application. For any field where nutrients are applied at a rate based on the crop phosphorus requirement, the NMP must account for single-year nutrient applications that supply more than the crop's annual phosphorus requirement.
- All other additions of plant available nitrogen and phosphorus (i.e., from sources other than manure, litter, or process wastewater or credits for residual nitrogen).
- The form and source of manure, litter, and process wastewater to be land-applied.
- The timing and method of land application. The NMP also must include storage capacities needed to ensure adequate storage that accommodates the timing indicated.
- The methodology that will be used to account for the amount of nitrogen and phosphorus in the manure, litter, and wastewater to be applied.
- Any other factors necessary to determine the maximum application rate identified in accordance with this Linear Approach.
- 2. Narrative Rate Approach. Expresses a narrative rate of application that results in the amount, in tons or gallons, of manure, litter, and process wastewater to be land applied. CAFOs selecting the narrative rate approach to address rates of application must include in the NMP submitted to the permitting authority the following information for each crop, field, and year covered by the NMP, which will be used by the permitting authority to establish site-specific permit terms:
- The maximum amounts of nitrogen and phosphorus that will be derived from all sources of nutrients (pounds/acre for each crop and field).
- The outcome of the field-specific assessment of the potential for nitrogen and phosphorus transport from each field. The CAFO must specify any conservation practices used in calculating the risk rating.
- The crops to be planted in each field or any other uses of a field such as pasture or fallow fields, including alternative crops if applicable. Any alternative crops included in the NMP must be listed by field, in addition to the crops identified in the planned crop rotation for that field.
- The realistic annual yield goal for each crop or use identified for each field for each year, including any alternative crops identified.
- The nitrogen and phosphorus recommendations from [the permitting authority to specify acceptable sources] for each crop or use identified for each field, including any alternative crops identified.
- The methodology (including formulas, sources of data, protocols for making determination, etc.) and actual data that will be used to account for: (1) the results of soil tests required by Parts II.A.4.b and III.A.3.g of this

permit, (2) credits for all nitrogen in the field that will be plant- available, (3) the amount of nitrogen and phosphorus in the manure, litter, and process wastewater to be applied, (4) consideration of multi-year phosphorus application (for any field where nutrients are applied at a rate based on the crop phosphorus requirement, the methodology must account for single-year nutrient applications that supply more than the crop's annual phosphorus requirement), (5) all other additions of plant available nitrogen and phosphorus to the field (i.e., from sources other than manure, litter, or process wastewater or credits for residual nitrogen), (6) timing and method of land application, and (7) volatilization of nitrogen and mineralization of organic nitrogen.

Any other factors necessary to determine the amounts of nitrogen and phosphorus to be applied in accordance

- NMPs using the Narrative Rate Approach must also include the following projections, which will not be used by the permitting authority in establishing site-specific permit terms:
- i. Planned crop rotations for each field for the period of permit coverage.
- ii. Projected amount of manure, litter, or process wastewater to be applied.
- iii. Projected credits for all nitrogen in the field that will be plant-available.
- iv. Consideration of multi-year phosphorus application.

with the Narrative Rate Approach.

- v. Accounting for other additions of plant-available nitrogen and phosphorus to the field.
- vi. The predicted form, source, and method of application of manure, litter, and process wastewater for each crop
 - If the receiving water is on the 303(d) list for nutrients then the narrative rate approach must be used.
 - a. For the Linear Approach the permittee will complete the Nutrient Budget Worksheet, below, for the next 5 years to which manure or process waste water is or may be applied. A copy of each Nutrient Budget Worksheet will be maintained on site, and a copy will be submitted to the Department.

Ni	Nutrient Budget V sheet									
Fi	Field identification: 54-26N-5EYear: 2014 Crop: WWHEAT									
I CA	CAUSCIEU COUD YIEIO : 'VA King et e O e a									
Pb	Phosphorus index results or Phosphorus application from soil test: / Jnom Sail TEST									
M	I TANGENCE OF PAPPINGHOUSE.									
W	When will application occur: OCTOBER OF 2014									
Nu	Nutrient Budget Nitrogen-based Phosphorus- Source of									
		9	Application	based	information					
				Application	***************************************					
		Crop Nutrient Needs,	80 bu/A 140/0 PAO							
8		lbs/acre		9116-141						
2	10	Credits from previous	264/65/AOFN SOLL N	91/hs/AC SOIL PEST						
16	(-)	legume crops, lbs/ac	50,16/Ac .	8 PPMIOLSEN						
	1,	Residuals from past manure	1	·						
3	(-)	production lbs/acre	-0-							
PONEDOS		Nutrients supplied by								
4	(-)	commercial fertilizer and	6	0						
	` ′	Biosolids, lbs/acre	oderan O com-							
R	1,	Nutrients supplied in								
5	(-)	irrigation water, lbs/acre	_ 0 _	- O-						
6	T	= Additional Nutrients								
0	<u> </u>	Needed, lbs/acre	214 Ibslac	9/1/5/1/						
		Total Nitrogen and								
7		Phosphorus in manure,								
′	lbs/ton or lbs/1090 gal									
		(from manure test)	35.165/1000 9AL	16/ns/1000011						
		Nutrient Availability factor,	35 165/1000 9AL 35 x 65 = 22.75 AVAILABLY 95%,	The state of the s						
8	(x) for Phosphorus based		AVAILABLY 95%	98010						
0		application use 1.0	1 2/66							
		= Available Nutrients in	,							
9		Manure, lbs/ton or								
		lbs/1000 gal	21.6 165 1000 9113	16168/1000 9AL						
		A CONTRACTOR OF THE CONTRACTOR	okus Parko sarah da kasa panji da katawa k	Park Service and Service	Property and the second					
		Additional Nutrients								
10		needed, lbs/acre (calculated								
		above)	214 165/AC	91165/AC						
	40	Available Nutrients in	1)						
11	(/)	Manure, lbs/ton or lbs/1000								
oranionetroine		gal (calculated above)	266/ns	16,103						
ا ؞ ا		= Manure Application		,						
12		Rate, tons/acre or 1000	, ,							
L <u>.</u>		gal/acre	6000 9 AL/AC	6000 9AL/AC						
nts:		•	V	V !						

Section F - CERTIFICATION

Permittee Information: This form must be completed, signed, and certified as follows:

- For a corporation, by a principal officer of at least the level of vice president;
- For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
- For a municipality, state, federal, or other public facility, by either a principal executive officer or ranking elected official.

All Permittees Must Complete the Following Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information; including the possibility of fine and imprisonment for knowing violations. [75-5-633, MCA]

A. Name (Type or Print)	
David D. HoFer	
B. Title (Type or Print)	C. Phone No.
SecTARAV-TreasuFR	C. Phone No. 406-734-52/6
D. Signature	E. Date Signed
TI D	10-23-14

The Department will not process this form until all of the requested information is supplied, and the appropriate fees are paid. Return this form and the applicable fee to:

Department of Environmental Quality
Water Protection Bureau
PO Box 200901
Helena, MT 59620-0901
(406) 444-3080



CONSERVATION PLAN WAY (4, MANURE TRANSFER and FIELD APPLICATION MAP

Date: 8/15/2008

Customer(s): TWIN HILLS COLONY INC

District: CHOUTEAU COUNTY CONSERVATION DISTRICT

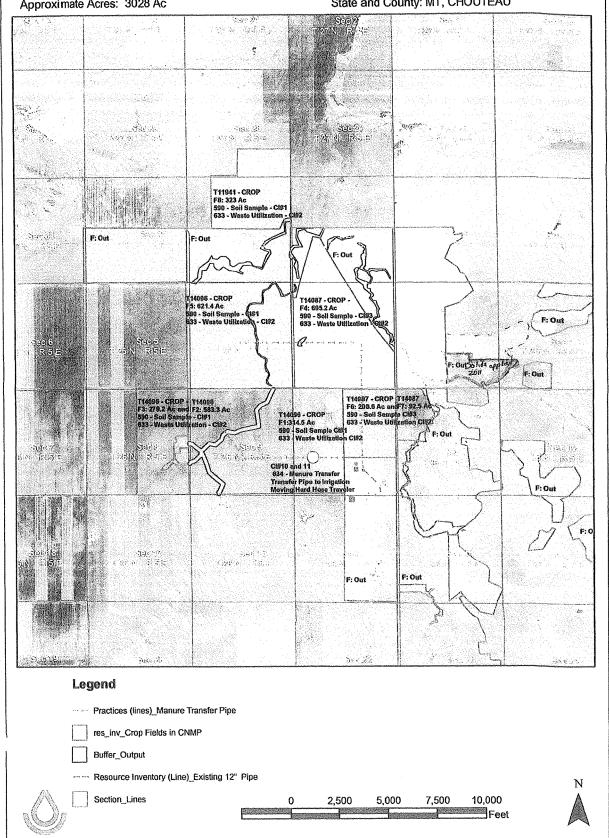
Assisted By: Pam Linker

Agency: USDA - NRCS

Approximate Acres: 3028 Ac

State and County: MT, CHOUTEAU

Field Office: FORT BENTON SERVICE CENTER



CONSERVATION PLAN MAP (2) MANURE TRANSFER and FIELD APPLICATION MAP

Customer(s): TWIN HILLS COLONY INC

District: CHOUTEAU COUNTY CONSERVATION DISTRICT

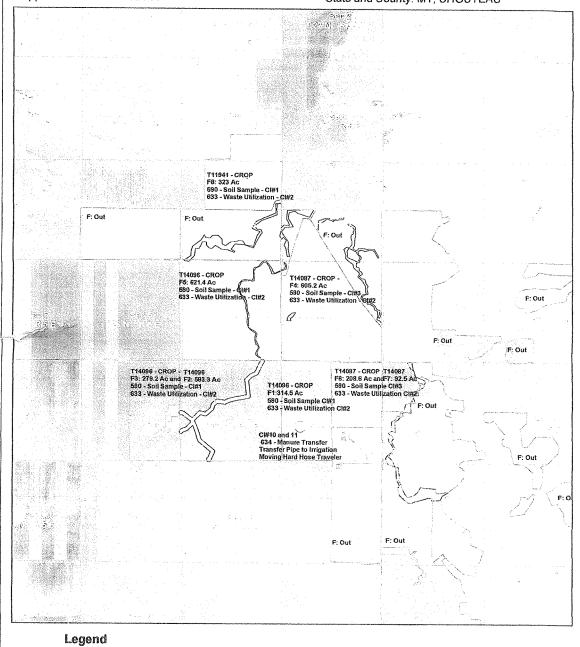
Approximate Acres: 3028 Ac

Field Office: FORT BENTON SERVICE CENTER

Date: 8/15/2008

Agency: USDA - NRCS Assisted By: Pam Linker

State and County: MT, CHOUTEAU



Practices (lines)_Manure Transfer Pipe

res_inv_Crop Fields in CNMP

Buffer_Output

- Resource Inventory (Line)_Existing 12" Pipe

Section_Lines

0 2,500 5,000 7,500 10,000 Feet



Customer(s): TWIN HILLS COLONY INC

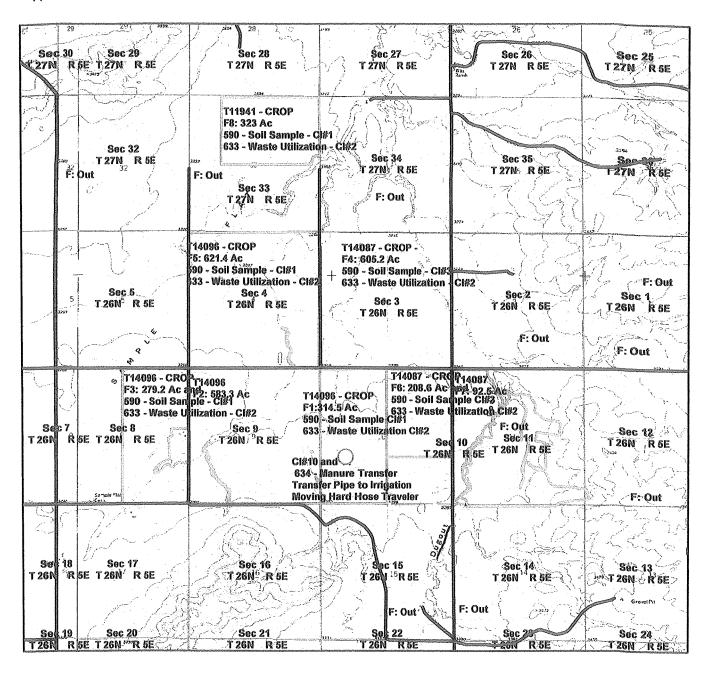
District: CHOUTEAU COUNTY CONSERVATION DISTRICT

Approximate Acres: 3028 Ac

Field Office: FORT BENTON SERVICE CENTER

Agency: USDA - NRCS Assisted By: Pam Linker

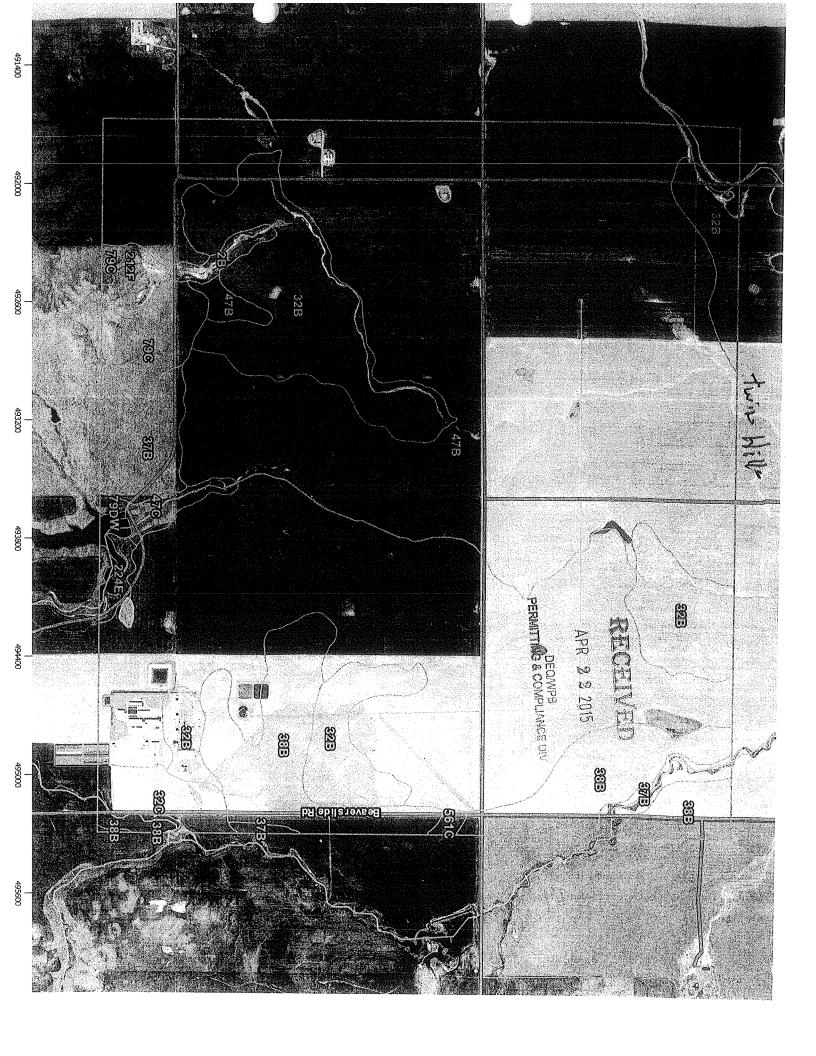
State and County: MT, Chouteau











NSDA AGS/N

Soil Map—Chouteau County Area, Montana (Twin Hills Application Fields)



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Mine or Quarry	Marsh or swamp	Lava Flow	Landfill	Gravelly Spot	Gravel Pit	Closed Depression	Clay Spot		Borrow Pit	Blowout	Special Point Features	Con may contract	Soil Man Linit Points	Soil Map Unit Lines	Soil Map Unit Polygons		Area of Interest (AOI)	Area of Interest (AOI)
		Background	The second		#2500A		‡	Transportation		Water Features	. s	à n	▷	ø	2 i	9	٥	M
	Aerial Photography	10	Local Roads	Major Roads	US Routes	Interstate Highways	Rails	ation	Streams and Canals	tures		Special Line Features	Other	Averabor	Wet Spot	Very Stony Spot	Stony Spot	Spoil Area

NAU IZTORNATIOZ

The soil surveys that comprise your AOI were mapped at 1:24,000.

measurements. Please rely on the bar scale on each map sheet for map

Coordinate System: Web Mercator (EPSG:3857) Source of Map: Natural Resources Conservation Service Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov

Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required. distance and area. A projection that preserves area, such as the projection, which preserves direction and shape but distorts Maps from the Web Soil Survey are based on the Web Mercator

the version date(s) listed below. This product is generated from the USDA-NRCS certified data as of

Soil Survey Area: Chouteau County Area, Montana Survey Area Data: Version 11, Sep 2, 2014

or larger. Soil map units are labeled (as space allows) for map scales 1:50,000

Date(s) aerial images were photographed: Jul 15, 2011—Jul 17

of map unit boundaries may be evident. imagery displayed on these maps. As a result, some minor shifting compiled and digitized probably differs from the background The orthophoto or other base map on which the soil lines were

\$ ¢ •

Sandy Spot

Severely Eroded Spot

4 Ç

> Saline Spot Rock Outcrop

Office Office

W

Sodic Spot Slide or Slip Sinkhole 0 0 3

Perennial Water

Miscellaneous Water

DECOMPS PERMITTING & COUNTY ANDE DIV.

National Cooperative Soil Survey

Web Soil Survey

Map Unit Legend

Chouteau County Area, Montana (MT615)								
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI					
2B	Marcott-Bigsandy complex, 0 to 4 percent slopes	13.9	0.5%					
32B	Kobase silty clay loam, 0 to 4 percent slopes	392.8	13.3%					
32C	Kobase silty clay loam, 4 to 8 percent slopes	49.4	1.7%					
37B	Evanston loam, 0 to 4 percent slopes	75.0	2.5%					
38B	Ethridge silty clay loam, 0 to 4 percent slopes	254.5	8.6%					
47B	Marias silty clay, 0 to 4 percent slopes	2,032.0	68.8%					
47C	Marias silty clay, 4 to 8 percent slopes	17.5	0.6%					
79C	Yamacall loam, 4 to 8 percent slopes	66.4	2.2%					
79D	Yamacall loam, 8 to 15 percent slopes	3.4	0.1%					
212F	Cabbart-Hillon loams, 25 to 70 percent slopes	23.5	0.8%					
224E	Hillon-Joplin loams, 8 to 25 percent slopes	13.0	0.4%					
561C	Scobey-Kevin clay loams, 4 to 8 percent slopes	4.0	0.1%					
W	Water	7.0	0.2%					
Totals for Area of Interest		2,952.4	100.0%					

